

## ABSTRACT

The invention relates to a refractometer comprising an optical module (4) arranged floatingly inside a housing structure, which module comprises an optical window (2) to be positioned in a process fluid (3), and means for forming an illuminating beam and for directing it into the process fluid (3) through the optical window (2) and for directing back the part of the illuminating beam that is reflected from the process fluid, and further, means for watching the image formed in said manner. The optical module (4) is arranged to be supported against the housing structure by means of sealing (5) arranged between the optical window (2) and the housing structure. In order to provide a device suitable for difficult conditions, the housing structure part (6) in contact with the process fluid (3) against which the optical window (2) is arranged to be supported via sealing (5) is formed of a material that is chemically durable, mechanically rigid and durable and has good thermal conductivity.